

# **SMB XS-S1960-H Series Switch Release Notes,11.4(1)B42P17**

---

**Release Date:** Nov.14, 2019

**Current Release:** S19\_RGOS 11.4(1)B42P17

## Contents

This document includes the following sections:

- [Basic Information](#)
- [Hardware Supported](#)
- [Changes](#)
- [Resolved Issues](#)
- [Open Issues](#)
- [Limitations](#)
- [Related Documentation](#)
- [Upgrade Files](#)
- [Upgrade Tips](#)
- [Upgrade Steps](#)

## Basic Information

**Table 1 Basic Information of the Current Release**

<b>Current Release</b>	S19_RGOS 11.4(1)B42P17
<b>Previous Release</b>	S19_RGOS 11.4(1)B42P15
<b>Applicable Product</b>	XS-S1960 Series
<b>Category</b>	Official release

## Test Report



19 test  
report.doc

## Hardware Supported

**Table 2 Hardware Models and the Supporting Releases**

Hardware Model	Version	Description	Release
XS-S1960-24GT4SFP-H	1.30	Switch	S19_RGOS 11.4(1)B42P17
XS-S1960-10GT2SFP-P-H	1.30	Switch	S19_RGOS 11.4(1)B42P17
XS-S1960-24GT4SFP-UP-H	3.50	Switch	S19_RGOS 11.4(1)B42P17

XS-S1960-48GT4SFP-H	1.30	Switch	S19_RGOS 11.4(1)B42P17
---------------------	------	--------	------------------------

**Note**

The hardware version number is rounded to the first decimal place. The numeral in the second decimal place does not change the supporting release.

## Changes

Table 3 shows modified or deleted features and command lines based on the baseline version.

**Table 3 Changes to the Baseline Version**

Feature	Change Description	Release
L3 feature	OSPF and VRRP features are added.	

## Resolved Issues

N/A

**Note**

See the bug notices for more details.

## Open Issues

Under Auto Smart Deployment, when a large number of IPC devices go offline, some device configuration may still exist in some scenarios. This problem can be fixed when the device is accessed next time.

**Note**

See the bug notices for more details.

## Limitations

N/A

## Related Documentation

- XS-S1960 Series Switch Hardware Installation and Reference Guide  
This manual introduces the functional and physical features of the S19 series switch and provides the device installation steps, hardware troubleshooting, module technical specifications, and specifications and usage guidelines for cables and connectors.
- XS-S1960 Series Switch Configuration Guide, Release 11.4(1)B42P17  
This manual describes the various network protocols and their implementation principles for the XS-S1960 series with the detailed configuration examples.
- XS-S1960 Series Switch Command Reference, Release 11.4(1)B42P17  
This manual describes the configuration commands related to the various network protocols supported on the XS-S1960-24GT4SFP-H series switch 11.4(1)B42P17 version in detail, including the command mode, parameter description, usage guide, and configuration examples.

## Upgrade Files

**Table 4 Latest Upgrade Files**

Applicable Product	Upgrade File	File Size	MD5
XS-S1960-24GT4SF P-H XS-S1960-10GT2SF P-P-H XS-S1960-24GT4SF P-UP-H XS-S1960-48GT4SF P-H	S19_RGOS11.4(1)B42P17_install.bin	83,976,503 Bytes	bbc924b75f870bc3591044d951 b75c80

## Upgrade Tips

The following are some tips for upgrading the XS-S1960 Series Switch 11.4(0)B42P17:

- Forcible upgrade of the Boot and Uboot programs is required.
- During the upgrade, pay attention to the prompt messages. If failures occur, please save the log and contact us for technical assistance.
- During the upgrade, it is recommended you not power off or reset the system, or plug/unplug any module.
- Use the **show version detail** command to check the firmware after the upgrade.

## Upgrade Steps

The procedure of upgrading the XS-S1960-24GT4SFP-H Series Switch 11.4(1)B42P17 is described as follows:

### Step 1:

Connect the Console port to a PC running HyperTerminal or similar emulation program. Set baud rate to 9600, data bits to 8, stop bits to 1 and flow control to none.

### Step 2:

Connect the switch to the PC with an Ethernet cable. Run the TFTP server on the PC and select the files (such as upgrade files) to be transmitted.

### Step 3:

Power up and start the switch. If the switch can enter the Main program, follow Step 4 Upgrade the main program. If the device cannot enter the Uboot program, please contact us for technical assistance.

### Step 4:

Upgrade the main program.

```
Ruijie#$/172.31.61.111/S19_RGOS11.4(1)B42P17_06223016_install.bin
Upgrade the device must be auto-reset after finish, are you sure upgrading now?[Y/N]y
% Copy to /tmp/vsd/0/
Please wait for a moment.....
Press Ctrl+C to quit
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
Begin to upgrade the install package S19_RGOS11.4(1)B42P17_06223016_install.bin...
Ruijie#*Jun 26 16:00:50: %UPGRADE-6-INFO:
*Jun 26 16:00:50: %UPGRADE-6-INFO: [Slot 0]:Upgrade processing is 10%
*Jun 26 16:00:55: %UPGRADE-6-INFO:
*Jun 26 16:00:55: %UPGRADE-6-INFO: [Slot 0]:Upgrade processing is 20%
*Jun 26 16:00:56: %UPGRADE-6-INFO:
*Jun 26 16:00:56: %UPGRADE-6-INFO: [Slot 0]:Upgrade processing is 30%
*Jun 26 16:00:56: %UPGRADE-6-INFO:
*Jun 26 16:00:56: %UPGRADE-6-INFO: [Slot 0]:Upgrade processing is 40%
*Jun 26 16:00:56: %UPGRADE-6-INFO:

Upgrade info [OK]
      Boot version[1.2.28.0c4a1bf->1.2.30.7172482]
Reload system to take effect!
%SYS-0-REBOOT: Rebooting by job:
      Boot SPL 1.2.30-7172482 (Mar 27 2017 - 21:37:15)
```

```
NAND: Detected flash

Boot 1.2.28-0c4albf (Feb 09 2017 - 17:14:53)

I2C:  ready
DRAM:  508 MiB
NAND:  Micron MT29F2G08ABAEA, chipsize 256 MiB
In:    serial
Out:   serial
Err:   serial
Unlocking L2 Cache ...Done
arm_clk=1000MHz, axi_clk=400MHz, apb_clk=100MHz, arm_periph_clk=500MHz
SETMAC: Setmac operation was performed at 2018-06-26 14:00:17 (version: 11.0)
Press Ctrl+C to enter Boot Menu
Creating 1 MTD partitions on "nand0":
0x000001000000-0x000002e00000 : "mtd=6"
UBI: attaching mtd1 to ubi0
UBI: physical eraseblock size:  131072 bytes (128 KiB)
UBI: logical eraseblock size:   126976 bytes
UBI: smallest flash I/O unit:   2048
UBI: VID header offset:        2048 (aligned 2048)
UBI: data offset:              4096
.....
Done
upgrade S19_RGOS11.4(1)B42P14_06190415_install.bin.up.tmp size 4f2f92b.....
Uncompressing 0x4f2ec61@0x82000cca to 0x6b612c8@0x86f2f92c
Uncompressed 0x6b612c8 bytes
Move the uncompressed data(0x6b612c8 bytes) from 0x86f2f92c to 0x82000000.
Get boot addr 0x88602f8c, len 0xdc200; kernel addr 0x820e2e88, len 0x440000; rootfs addr
0x82522f04, len 0x60e0000
Package information:
    kernel version:3.10.18.685d6b0e0b198c
    rootfs version:1.0.0.d58b6bfb
    boot version:1.2.28.0c4albf
Upgrading boot ...
Erasing Nand...
Erasing at 0x4e0000 -- 100% complete.
Writing to Nand... #done

Erasing at 0x2de0000 -- 100% complete.
OK

Erasing at 0xf5e0000 -- 100% complete.
```

```

OK
#####
Unmounting UBIFS volume data!
UBI: mtd1 is detached from ubi0
Creating 1 MTD partitions on "nand0":
0x000001000000-0x000002e00000 : "mtd=6"
UBI: attaching mtd1 to ubi0
UBI: physical eraseblock size: 131072 bytes (128 KiB)
UBI: logical eraseblock size: 126976 bytes
UBI: smallest flash I/O unit: 2048
UBI: VID header offset: 2048 (aligned 2048)
UBI: data offset: 4096
UBI: attached mtd1 to ubi0
UBI: MTD device name: "mtd=6"
UBI: MTD device size: 30 MiB
UBI: number of good PEBs: 240
UBI: number of bad PEBs: 0
UBI: max. allowed volumes: 128
UBI: wear-leveling threshold: 4096
UBI: number of internal volumes: 1
UBI: number of user volumes: 1
UBI: available PEBs: 19
UBI: total number of reserved PEBs: 221
UBI: number of PEBs reserved for bad PEB handling: 2
UBI: max/mean erase counter: 1/0
UBIFS: mounted UBI device 0, volume 0, name "kernel"
UBIFS: mounted read-only
UBIFS: file system size: 26030080 bytes (25420 KiB, 24 MiB, 205 LEBs)
UBIFS: journal size: 3682304 bytes (3596 KiB, 3 MiB, 29 LEBs)
UBIFS: media format: w4/r0 (latest is w4/r0)
UBIFS: default compressor: LZ0
UBIFS: reserved for root: 0 bytes (0 KiB)
finding an appropriate kernel...vmlinux-3.10.18.685d6b0e0b198c
Loading file 'vmlinux-3.10.18.685d6b0e0b198c' to addr 0x82000000 with size 2021509
(0x001ed885)...
Done
current rootfs:1
current kernal name:vmlinux-3.10.18.685d6b0e0b198c

Erasing at 0xfe0000 -- 100% complete.
OK
##
Erasing Nand...
Erasing at 0x4e0000 -- 100% complete.
Writing to Nand... #done

```

SUCCESS: UPGRADING OK.

resetting ...

Boot SPL 1.2.30-7172482 (Mar 27 2017 - 21:37:15)

NAND: Detected flash

Boot 1.2.28-0c4a1bf (Feb 09 2017 - 17:14:53)

I2C: ready

DRAM: 508 MiB

NAND: Micron MT29F2G08ABAEA, chipsize 256 MiB

In: serial

Out: serial

Err: serial

Unlocking L2 Cache ...Done

arm\_clk=1000MHz, axi\_clk=400MHz, apb\_clk=100MHz, arm\_periph\_clk=500MHz

SETMAC: Setmac operation was performed at 2018-06-26 14:00:17 (version: 11.0)

Press Ctrl+C to enter Boot Menu

Creating 1 MTD partitions on "nand0":

0x0000001000000-0x0000002e00000 : "mtd=6"

UBI: attaching mtd1 to ubi0

UBI: physical eraseblock size: 131072 bytes (128 KiB)

UBI: physical eraseblock size: 131072 bytes (128 KiB)

UBI: logical eraseblock size: 126976 bytes

UBI: smallest flash I/O unit: 2048

UBI: VID header offset: 2048 (aligned 2048)

UBI: data offset: 4096

UBI: attached mtd1 to ubi0

UBI: MTD device name: "mtd=6"

UBI: MTD device size: 30 MiB

UBI: number of good PEBs: 240

UBI: number of bad PEBs: 0

UBI: max. allowed volumes: 128

UBI: wear-leveling threshold: 4096

UBI: number of internal volumes: 1

UBI: number of user volumes: 1

UBI: available PEBs: 19

UBI: total number of reserved PEBs: 221

UBI: number of PEBs reserved for bad PEB handling: 2

UBI: max/mean erase counter: 1/0

UBIFS: mounted UBI device 0, volume 0, name "kernel"



```

UBIFS: mounted read-only
UBIFS: file system size: 26030080 bytes (25420 KiB, 24 MiB, 205 LEBs)
UBIFS: journal size: 3682304 bytes (3596 KiB, 3 MiB, 29 LEBs)
UBIFS: media format: w4/r0 (latest is w4/r0)
UBIFS: default compressor: LZ0
UBIFS: reserved for root: 0 bytes (0 KiB)
Unmounting UBIFS volume kernel!
  Uncompressing Kernel Image ... OK
  Loading Device Tree to 823fc000, end 823ff593 ... OK

Starting kernel ...

*Jun 26 16:03:41: %LOCAL_DP-5-LC_PROB: Board information in this chassis has been
collected.
*Jun 26 16:03:41: %SWITCH-6-INSTALL: Install chassis XS-S1960-24GT4SFP-H on switch 1
*Jun 26 16:03:41: %DP-6-MASTER: Module in slot 0 has translated to master.
*Jun 26 16:03:46: %DP-6-POWER_OK: Power 1 ok.
*Jun 26 16:03:46: %DEV_MONITOR-5-CARD_POWER_ON: The power enough, card in slot 0 will
be controlled to power on automatically.
~ # *Jun 26 16:03:48: %DP-5-PROB: Board probing has completed.
*Jun 26 16:03:48: %DEV_MONITOR-6-DEVICE_INIT: master role init.
*Jun 26 16:03:49: %REDUNDANCY-6-STATES_CHANGE: Redundancy states changed: role master,
state alone.
*Jun 26 16:03:49: %SYSMON-5-WARMSTART: System warmstart.
^[

*Jun 26 16:04:59: %LINK-3-UPDOWN: Interface GigabitEthernet 0/1, changed state to up.
*Jun 26 16:04:59: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet 0/1,
changed state to up.
Ruijie>

```

## Step 5:

Use the **show version detail** command to verify whether the software version is the latest.

```

XS-S1960-24GT4SFP-H#show version detail
System description      : Ruijie Full Gigabit Security & Intelligence Access Switch
(XS-S1960-24GT4SFP-H) By Ruijie Networks
System start time       : 2019-08-14 10:56:36
System uptime           : 0:02:42:33
System hardware version : 1.30
System software version : S19_RGOS 11.4(1)B42P17
System patch number     : NA
System software number  : M16414410302019
System serial number    : G1LQ90Q088243

```

```
System boot version      : 1.2.28.0c4a1bf(170209)
System core version      : 3.10.18.7b6045c54a698a
Module information:
  Slot 0 : XS-S1960-24GT4SFP-H
    Hardware version      : 1.30
    Boot version          : 1.2.28
    Software version       : S19_RGOS 11.4(1)B42P17
    Software number        : M16414410302019
    Serial number          : G1LQ90Q088243
```

The Main Module programs are upgraded to S19 11.4(0)B42P17. The upgrading is successful.